

Tim Onasch

List of Publications by Year in descending order

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160
papers

23,256
citations

12330

69
h-index

10445

139
g-index

191
all docs

191
docs citations

191
times ranked

9283
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	12.6	3,374
2	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically influenced Northern Hemisphere midlatitudes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1,773
3	Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. <i>Mass Spectrometry Reviews</i> , 2007, 26, 185-222.	5.4	1,708
4	O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High-Resolution Time-of-Flight Aerosol Mass Spectrometry. <i>Environmental Science & Technology</i> , 2008, 42, 4478-4485.	10.0	1,524
5	A generalised method for the extraction of chemically resolved mass spectra from Aerodyne aerosol mass spectrometer data. <i>Journal of Aerosol Science</i> , 2004, 35, 909-922.	3.8	702
6	An Aerosol Chemical Speciation Monitor (ACSM) for Routine Monitoring of the Composition and Mass Concentrations of Ambient Aerosol. <i>Aerosol Science and Technology</i> , 2011, 45, 780-794.	3.1	675
7	Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon. <i>Science</i> , 2012, 337, 1078-1081.	12.6	618
8	Characterization of ambient aerosols in Mexico City during the MCMA-2003 campaign with Aerosol Mass Spectrometry: results from the CENICA Supersite. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 925-946.	4.9	341
9	Collection Efficiencies in an Aerodyne Aerosol Mass Spectrometer as a Function of Particle Phase for Laboratory Generated Aerosols. <i>Aerosol Science and Technology</i> , 2008, 42, 884-898.	3.1	340
10	Soot Particle Aerosol Mass Spectrometer: Development, Validation, and Initial Application. <i>Aerosol Science and Technology</i> , 2012, 46, 804-817.	3.1	316
11	Transmission Efficiency of an Aerodynamic Focusing Lens System: Comparison of Model Calculations and Laboratory Measurements for the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2007, 41, 721-733.	3.1	308
12	Laboratory studies of the chemical composition and cloud condensation nuclei (CCN) activity of secondary organic aerosol (SOA) and oxidized primary organic aerosol (OPOA). <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8913-8928.	4.9	307
13	Characterization of aerosol photooxidation flow reactors: heterogeneous oxidation, secondary organic aerosol formation and cloud condensation nuclei activity measurements. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 445-461.	3.1	298
14	An Inter-Comparison of Instruments Measuring Black Carbon Content of Soot Particles. <i>Aerosol Science and Technology</i> , 2007, 41, 295-314.	3.1	276
15	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. <i>Nature Communications</i> , 2015, 6, 8435.	12.8	266
16	Relationship between Oxidation Level and Optical Properties of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2013, 47, 6349-6357.	10.0	265
17	A Novel Method for Estimating Light-Scattering Properties of Soot Aerosols Using a Modified Single-Particle Soot Photometer. <i>Aerosol Science and Technology</i> , 2007, 41, 125-135.	3.1	258
18	Soot Particle Studiesâ€”Instrument Inter-Comparisonâ€”Project Overview. <i>Aerosol Science and Technology</i> , 2010, 44, 592-611.	3.1	228

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19	Humidity-dependent phase state of SOA particles from biogenic and anthropogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7517-7529.	4.9	219
20	Laboratory and Ambient Particle Density Determinations using Light Scattering in Conjunction with Aerosol Mass Spectrometry. <i>Aerosol Science and Technology</i> , 2007, 41, 343-359.	3.1	208
21	Chemically-Resolved Volatility Measurements of Organic Aerosol from Different Sources. <i>Environmental Science & Technology</i> , 2009, 43, 5351-5357.	10.0	201
22	Design, Modeling, Optimization, and Experimental Tests of a Particle Beam Width Probe for the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2005, 39, 1143-1163.	3.1	196
23	Deliquescence, Efflorescence, and Water Activity in Ammonium Nitrate and Mixed Ammonium Nitrate/Succinic Acid Microparticles. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9337-9346.	2.5	191
24	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	3.3	184
25	Transitions from Functionalization to Fragmentation Reactions of Laboratory Secondary Organic Aerosol (SOA) Generated from the OH Oxidation of Alkane Precursors. <i>Environmental Science & Technology</i> , 2012, 46, 5430-5437.	10.0	181
26	Effect of oxidant concentration, exposure time, and seed particles on secondary organic aerosol chemical composition and yield. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3063-3075.	4.9	177
27	Use of electrochemical sensors for measurement of air pollution: correcting interference response and validating measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3575-3588.	3.1	177
28	Detection of particle-phase polycyclic aromatic hydrocarbons in Mexico City using an aerosol mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 152-170.	1.5	167
29	Particulate emissions from commercial shipping: Chemical, physical, and optical properties. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
30	Correlation of secondary organic aerosol with odd oxygen in Mexico City. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	161
31	Chemical Smoke Marker Emissions During Flaming and Smoldering Phases of Laboratory Open Burning of Wildland Fuels. <i>Aerosol Science and Technology</i> , 2010, 44, i-v.	3.1	156
32	The Detection Efficiency of the Single Particle Soot Photometer. <i>Aerosol Science and Technology</i> , 2010, 44, 612-628.	3.1	151
33	Characterization of submicron particles influenced by mixed biogenic and anthropogenic emissions using high-resolution aerosol mass spectrometry: results from CARES. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8131-8156.	4.9	146
34	Infrared spectroscopic study of the deliquescence and efflorescence of ammonium sulfate aerosol as a function of temperature. <i>Journal of Geophysical Research</i> , 1999, 104, 21317-21326.	3.3	142
35	The deposition ice nucleation and immersion freezing potential of amorphous secondary organic aerosol: Pathways for ice and mixed-phase cloud formation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
36	Adsorptive uptake of water by semisolid secondary organic aerosols. <i>Geophysical Research Letters</i> , 2015, 42, 3063-3068.	4.0	139

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37	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). <i>Environmental Science and Technology Letters</i> , 2018, 5, 167-174.	8.7	131
38	On-Road Measurement of Gas and Particle Phase Pollutant Emission Factors for Individual Heavy-Duty Diesel Trucks. <i>Environmental Science & Technology</i> , 2012, 46, 8511-8518.	10.0	123
39	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6949-6981.	4.9	119
40	Reduction in biomass burning aerosol light absorption upon humidification: roles of inorganically-induced hygroscopicity, particle collapse, and photoacoustic heat and mass transfer. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8949-8966.	4.9	119
41	Aging Effects on Biomass Burning Aerosol Mass and Composition: A Critical Review of Field and Laboratory Studies. <i>Environmental Science & Technology</i> , 2019, 53, 10007-10022.	10.0	116
42	Impact of Fuel Quality Regulation and Speed Reductions on Shipping Emissions: Implications for Climate and Air Quality. <i>Environmental Science & Technology</i> , 2011, 45, 9052-9060.	10.0	115
43	Characterization of particulate matter emissions from on-road gasoline and diesel vehicles using a soot particle aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7585-7599.	4.9	115
44	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3425-3442.	4.9	114
45	Characterization of urban pollutant emission fluxes and ambient concentration distributions using a mobile laboratory with rapid response instrumentation. <i>Faraday Discussions</i> , 2005, 130, 327.	3.2	108
46	Investigation of the correlation between odd oxygen and secondary organic aerosol in Mexico City and Houston. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8947-8968.	4.9	107
47	Regional influence of wildfires on aerosol chemistry in the western US and insights into atmospheric aging of biomass burning organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2477-2493.	4.9	107
48	Commercial Aircraft Engine Emissions Characterization of in-Use Aircraft at Hartsfield-Jackson Atlanta International Airport. <i>Environmental Science & Technology</i> , 2008, 42, 1877-1883.	10.0	104
49	Viscous organic aerosol particles in the upper troposphere: diffusivity-controlled water uptake and ice nucleation?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13599-13613.	4.9	103
50	Pollution Gradients and Chemical Characterization of Particulate Matter from Vehicular Traffic near Major Roadways: Results from the 2009 Queens College Air Quality Study in NYC. <i>Aerosol Science and Technology</i> , 2012, 46, 1201-1218.	3.1	102
51	Arctic sea ice melt leads to atmospheric new particle formation. <i>Scientific Reports</i> , 2017, 7, 3318.	3.3	101
52	Light Absorption by Ambient Black and Brown Carbon and its Dependence on Black Carbon Coating State for Two California, USA, Cities in Winter and Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1550-1577.	3.3	99
53	Single particle characterization using a light scattering module coupled to a time-of-flight aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7769-7793.	4.9	98
54	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2007-2025.	4.9	94

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55	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7647-7687.	4.9	94
56	Light scattering and absorption by fractal-like carbonaceous chain aggregates: comparison of theories and experiment. <i>Applied Optics</i> , 2007, 46, 6990.	2.1	93
57	Measurements of Morphology Changes of Fractal Soot Particles using Coating and Denuding Experiments: Implications for Optical Absorption and Atmospheric Lifetime. <i>Aerosol Science and Technology</i> , 2007, 41, 734-750.	3.1	92
58	Chemical evolution of atmospheric organic carbon over multiple generations of oxidation. <i>Nature Chemistry</i> , 2018, 10, 462-468.	13.6	92
59	Absorption Enhancement of Coated Absorbing Aerosols: Validation of the Photo-Acoustic Technique for Measuring the Enhancement. <i>Aerosol Science and Technology</i> , 2009, 43, 1006-1012.	3.1	91
60	Aerosol Light Extinction Measurements by Cavity Attenuated Phase Shift (CAPS) Spectroscopy: Laboratory Validation and Field Deployment of a Compact Aerosol Particle Extinction Monitor. <i>Aerosol Science and Technology</i> , 2010, 44, 428-435.	3.1	89
61	Regional Influence of Aerosol Emissions from Wildfires Driven by Combustion Efficiency: Insights from the BBOP Campaign. <i>Environmental Science & Technology</i> , 2016, 50, 8613-8622.	10.0	89
62	Experimental Studies of Vapor-Deposited Water-Ice Films Using Grazing-Angle FTIR-Reflection Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10887-10895.	2.6	88
63	Aircraft observations of aerosol composition and ageing in New England and Mid-Atlantic States during the summer 2002 New England Air Quality Study field campaign. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	87
64	Gas Turbine Engine Emissions—Part II: Chemical Properties of Particulate Matter. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	87
65	Particulate Emissions of Gas Turbine Engine Combustion of a Fischer-Tropsch Synthetic Fuel. <i>Energy & Fuels</i> , 2010, 24, 5883-5896.	5.1	84
66	Radiative absorption enhancements by black carbon controlled by particle-to-particle heterogeneity in composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5196-5203.	7.1	84
67	Mixing state of carbonaceous aerosol in an urban environment: single particle characterization using the soot particle aerosol mass spectrometer (SP-AMS). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1823-1841.	4.9	83
68	Chemical Properties of Aircraft Engine Particulate Exhaust Emissions. <i>Journal of Propulsion and Power</i> , 2009, 25, 1121-1137.	2.2	82
69	Laboratory characterization of an aerosol chemical speciation monitor with PM _{2.5} measurement capability. <i>Aerosol Science and Technology</i> , 2017, 51, 69-83.	3.1	82
70	Joint Impacts of Acidity and Viscosity on the Formation of Secondary Organic Aerosol from Isoprene Epoxydiols (IEPOX) in Phase Separated Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2646-2658.	2.7	80
71	Characterization of an aerodynamic lens for transmitting particles greater than 1 micrometer in diameter into the Aerodyne aerosol mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3271-3280.	3.1	79
72	Transformation of logwood combustion emissions in a smog chamber: formation of secondary organic aerosol and changes in the primary organic aerosol upon daytime and nighttime aging. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13251-13269.	4.9	76

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73	A case study of ozone production, nitrogen oxides, and the radical budget in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2499-2516.	4.9	75
74	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 8568-8579.	10.0	72
75	Collection efficiency of the soot-particle aerosol mass spectrometer (SP-AMS) for internally mixed particulate black carbon. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4507-4516.	3.1	71
76	Spherical tarball particles form through rapid chemical and physical changes of organic matter in biomass-burning smoke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19336-19341.	7.1	70
77	Particulate Emissions from in-use Commercial Aircraft. <i>Aerosol Science and Technology</i> , 2005, 39, 799-809.	3.1	69
78	Sampling Artifacts from Conductive Silicone Tubing. <i>Aerosol Science and Technology</i> , 2009, 43, 855-865.	3.1	68
79	Nighttime chemical evolution of aerosol and trace gases in a power plant plume: Implications for secondary organic nitrate and organosulfate aerosol formation, NO ₃ radical chemistry, and N ₂ O ₅ heterogeneous hydrolysis. <i>Journal of Geophysical Research</i> , 2010, 115, ..	3.3	67
80	Single Scattering Albedo Monitor for Airborne Particulates. <i>Aerosol Science and Technology</i> , 2015, 49, 267-279.	3.1	67
81	Observation of Fullerene Soot in Eastern China. <i>Environmental Science and Technology Letters</i> , 2016, 3, 121-126.	8.7	67
82	Formation and evolution of tar balls from northwestern US wildfires. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11289-11301.	4.9	67
83	Importance of historical contingency in the stereochemistry of hydratase-dehydratase enzymes. <i>Science</i> , 1995, 269, 527-529.	12.6	66
84	Application of high-resolution time-of-flight chemical ionization mass spectrometry measurements to estimate volatility distributions of α -pinene and naphthalene oxidation products. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1-18.	3.1	63
85	Crystallization Kinetics of Nitric Acid Dihydrate Aerosols. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9127-9137.	2.9	62
86	Aerosol mixing state, hygroscopic growth and cloud activation efficiency during MIRAGE 2006. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5049-5062.	4.9	60
87	Evolution of Vehicle Exhaust Particles in the Atmosphere. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 1192-1203.	1.9	59
88	Mass spectrometry of refractory black carbon particles from six sources: carbon-cluster and oxygenated ions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2591-2603.	4.9	59
89	A case study into the measurement of ship emissions from plume intercepts of the NOAA ship <i>Miller Freeman</i> . <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1337-1352.	4.9	58
90	Technical Note: Use of a beam width probe in an Aerosol Mass Spectrometer to monitor particle collection efficiency in the field. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 549-556.	4.9	57

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91	Evaluation of mobile emissions contributions to Mexico City's emissions inventory using on-road and cross-road emission measurements and ambient data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6305-6317.	4.9	53
92	Temperature-Dependent Heterogeneous Efflorescence of Mixed Ammonium Sulfate/Calcium Carbonate Particles. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10797-10806.	2.5	52
93	Chemistry of new particle growth in mixed urban and biogenic emissions – insights from CARES. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6477-6494.	4.9	52
94	Low Fractal Dimension Cluster-Dilute Soot Aggregates from a Premixed Flame. <i>Physical Review Letters</i> , 2009, 102, 235504.	7.8	51
95	Laboratory evaluation of species-dependent relative ionization efficiencies in the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2018, 52, 626-641.	3.1	49
96	Determination of particulate lead using aerosol mass spectrometry: MILAGRO/MCMA-2006 observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5371-5389.	4.9	48
97	Characterization of black carbon-containing particles from soot particle aerosol mass spectrometer measurements on the R/V <i>Atlantis</i> during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2575-2593.	3.3	47
98	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. <i>Scientific Reports</i> , 2019, 9, 11824.	3.3	47
99	Mass Spectral Analysis of Organic Aerosol Formed Downwind of the Deepwater Horizon Oil Spill: Field Studies and Laboratory Confirmations. <i>Environmental Science & Technology</i> , 2012, 46, 8025-8034.	10.0	45
100	Black carbon emissions from in-use ships: a California regional assessment. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1881-1896.	4.9	45
101	Chemical Compositions of Black Carbon Particle Cores and Coatings via Soot Particle Aerosol Mass Spectrometry with Photoionization and Electron Ionization. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4589-4599.	2.5	44
102	Rapid evolution of aerosol particles and their optical properties downwind of wildfires in the western US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13319-13341.	4.9	44
103	Controlled nitric oxide production via $O(^1D) + N_2O$ reactions for use in oxidation flow reactor studies. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2283-2298.	3.1	42
104	CCN activation experiments with adipic acid: effect of particle phase and adipic acid coatings on soluble and insoluble particles. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3735-3748.	4.9	41
105	Application of positive matrix factorization to on-road measurements for source apportionment of diesel- and gasoline-powered vehicle emissions in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3629-3644.	4.9	41
106	Intercomparison of a Cavity Attenuated Phase Shift-based extinction monitor (CAPS PMex) with an integrating nephelometer and a filter-based absorption monitor. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1141-1151.	3.1	41
107	Influence of Emissions and Aqueous Processing on Particles Containing Black Carbon in a Polluted Urban Environment: Insights From a Soot Particle Aerosol Mass Spectrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6648-6666.	3.3	41
108	Biomass-burning-derived particles from a wide variety of fuels – Part 2: Effects of photochemical aging on particle optical and chemical properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8511-8532.	4.9	41

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109	Spatial and temporal variability of particulate polycyclic aromatic hydrocarbons in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3093-3105.	4.9	40
110	Atmospheric Measurements of the Physical Evolution of Aircraft Exhaust Plumes. <i>Environmental Science & Technology</i> , 2013, 47, 3513-3520.	10.0	40
111	Condensed-phase biogenic–anthropogenic interactions with implications for cold cloud formation. <i>Faraday Discussions</i> , 2017, 200, 165-194.	3.2	40
112	Novel insights on new particle formation derived from a pan-european observing system. <i>Scientific Reports</i> , 2018, 8, 1482.	3.3	39
113	Microphysical Modeling of Ground-Level Aircraft-Emitted Aerosol Formation: Roles of Sulfur-Containing Species. <i>Journal of Propulsion and Power</i> , 2008, 24, 590-602.	2.2	38
114	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 12366-12378.	10.0	37
115	Response to Comment on "Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon". <i>Science</i> , 2013, 339, 393-393.	12.6	35
116	Measurement and modeling of the multiwavelength optical properties of uncoated flame-generated soot. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12141-12159.	4.9	35
117	Implementation of a Markov Chain Monte Carlo method to inorganic aerosol modeling of observations from the MCMA-2003 campaign – Part II: Model application to the CENICA, Pedregal and Santa Ana sites. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4889-4904.	4.9	34
118	Laboratory study of the heterogeneous ice nucleation on black-carbon-containing aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12175-12194.	4.9	32
119	Relating aerosol mass spectra to composition and nanostructure of soot particles. <i>Carbon</i> , 2019, 142, 535-546.	10.3	32
120	Gas Turbine Engine Emissions – Part I: Volatile Organic Compounds and Nitrogen Oxides. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	31
121	Organic particle types by single-particle measurements using a time-of-flight aerosol mass spectrometer coupled with a light scattering module. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 187-197.	3.1	31
122	Inkjet-Printed Gold Nanoparticle Surfaces for the Detection of Low Molecular Weight Biomolecules by Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1931-1937.	2.8	31
123	Impact of Biofuel Blends on Black Carbon Emissions from a Gas Turbine Engine. <i>Energy & Fuels</i> , 2020, 34, 4958-4966.	5.1	30
124	Composition-dependent freezing nucleation rates for HNO ₃ /H ₂ O aerosols resembling gravity-wave-perturbed stratospheric particles. <i>Journal of Geophysical Research</i> , 1998, 103, 28439-28450.	3.3	29
125	Investigations of SP-AMS Carbon Ion Distributions as a Function of Refractory Black Carbon Particle Type. <i>Aerosol Science and Technology</i> , 2015, 49, 409-422.	3.1	29
126	Detecting Fugitive Emissions of 1,3-Butadiene and Styrene from a Petrochemical Facility: An Application of a Mobile Laboratory and a Modified Proton Transfer Reaction Mass Spectrometer. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12706-12711.	3.7	26

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127	Characterization of trace metals on soot aerosol particles with the SP-AMS: detection and quantification. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4803-4815.	3.1	26
128	Investigation of Refractory Black Carbon-Containing Particle Morphologies Using the Single-Particle Soot Photometer (SP2). <i>Aerosol Science and Technology</i> , 2015, 49, 872-885.	3.1	25
129	Modeling organic aerosol from the oxidation of α -pinene in a Potential Aerosol Mass (PAM) chamber. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5017-5031.	4.9	24
130	Composition and Sources of the Organic Particle Emissions from Aircraft Engines. <i>Aerosol Science and Technology</i> , 2014, 48, 61-73.	3.1	23
131	Dilution impacts on smoke aging: evidence in Biomass Burning Observation Project (BBOP) data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6839-6855.	4.9	23
132	The effects of morphology, mobility size, and secondary organic aerosol (SOA) material coating on the ice nucleation activity of black carbon in the cirrus regime. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13957-13984.	4.9	23
133	Design and Characterization of a Fluidized Bed Aerosol Generator: A Source for Dry, Submicrometer Aerosol. <i>Aerosol Science and Technology</i> , 2000, 32, 465-481.	3.1	22
134	Combustion and Destruction/Removal Efficiencies of In-Use Chemical Flares in the Greater Houston Area. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12685-12696.	3.7	20
135	In-situ characterization of metal nanoparticles and their organic coatings using laser-vaporization aerosol mass spectrometry. <i>Nano Research</i> , 2015, 8, 3780-3795.	10.4	20
136	Formation of refractory black carbon by SP2-induced charring of organic aerosol. <i>Aerosol Science and Technology</i> , 2018, 52, 1345-1350.	3.1	20
137	Morphology based particle segregation by electrostatic charge. <i>Journal of Aerosol Science</i> , 2008, 39, 785-792.	3.8	19
138	Direct Measurement of Aircraft Engine Soot Emissions Using a Cavity-Attenuated Phase Shift (CAPS)-Based Extinction Monitor. <i>Aerosol Science and Technology</i> , 2011, 45, 1319-1325.	3.1	18
139	Implementation of a Markov Chain Monte Carlo method to inorganic aerosol modeling of observations from the MCMA-2003 campaign – Part I: Model description and application to the La Merced site. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4867-4888.	4.9	16
140	Collection efficiency of α -pinene secondary organic aerosol particles explored via light-scattering single-particle aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1139-1154.	3.1	16
141	Kinetically controlled glass transition measurement of organic aerosol thin films using broadband dielectric spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3479-3490.	3.1	15
142	Assessment of a regulatory measurement system for the determination of the non-volatile particulate matter emissions from commercial aircraft engines. <i>Journal of Aerosol Science</i> , 2021, 154, 105734.	3.8	15
143	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. <i>Atmosphere</i> , 2017, 8, 166.	2.3	14
144	Examining the chemical composition of black carbon particles from biomass burning with SP-AMS. <i>Journal of Aerosol Science</i> , 2018, 120, 12-21.	3.8	14

#	ARTICLE	IF	CITATIONS
145	Understanding Composition, Formation, and Aging of Organic Aerosols in Wildfire Emissions via Combined Mountain Top and Airborne Measurements. ACS Symposium Series, 2018, , 363-385.	0.5	10
146	Ethylene Glycol Emissions from On-road Vehicles. Environmental Science & Technology, 2015, 49, 3322-3329.	10.0	9
147	Evaluating the use of satellite observations to supplement ground-level air quality data in selected cities in low- and middle-income countries. Atmospheric Environment, 2019, 218, 117016.	4.1	9
148	Particle detection using the dual-vaporizer configuration of the soot particle Aerosol Mass Spectrometer (SP-AMS). Aerosol Science and Technology, 2021, 55, 254-267.	3.1	7
149	Airborne and laboratory studies of an IAGOS instrumentation package containing a modified CAPS particle extinction monitor. Aerosol Science and Technology, 2017, 51, 1240-1253.	3.1	6
150	Technical note: Pyrolysis principles explain time-resolved organic aerosol release from biomass burning. Atmospheric Chemistry and Physics, 2021, 21, 15605-15618.	4.9	5
151	Chakrabarty<i>et al.</i> Reply:. Physical Review Letters, 2010, 104, .	7.8	4
152	Humidified single-scattering albedometer (H-CAPS-PM_{SSA}): Design, data analysis, and validation. Aerosol Science and Technology, 2021, 55, 749-768.	3.1	4
153	Laboratory validation of a compact single-scattering albedo (SSA) monitor. Atmospheric Measurement Techniques, 2021, 14, 1635-1653.	3.1	4
154	Experimental verification of principal losses in a regulatory particulate matter emissions sampling system for aircraft turbine engines. Aerosol Science and Technology, 2022, 56, 63-74.	3.1	3
155	Relative errors in derived multi-wavelength intensive aerosol optical properties using cavity attenuated phase shift single-scattering albedo monitors, a nephelometer, and tricolour absorption photometer measurements. Atmospheric Measurement Techniques, 2022, 15, 3279-3296.	3.1	3
156	Open-path, closed-path, and reconstructed aerosol extinction at a rural site. Journal of the Air and Waste Management Association, 2018, 68, 824-835.	1.9	2
157	Mixing state evolution of agglomerating particles in an aerosol chamber: Comparison of measurements and particle-resolved simulations. Aerosol Science and Technology, 2019, 53, 1229-1243.	3.1	2
158	Doppler spectrum-based polar nephelometer. Optics Letters, 2012, 37, 3654.	3.3	1
159	Crystallization kinetics of nitric acid dihydrate aerosols. , 1996, , 315-317.		0
160	Cavity Attenuated Phase Shift (CAPS)-Based Detection of Gas Phase Species and Aerosols. , 2019, , .		0